

1 I CLAIM:

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3 1. A clip to interconnect primary and
4 secondary bone zones having edges and surfaces,
5 comprising in combination:

6 a) a first tab to extend proximate a
7 surface of the secondary bone zone,

8 b) a second tab associated with the first
9 tab, and located to extend proximate a surface of the
10 primary bone zone,

11 c) said second tab having at least one barb
12 oriented to engage the primary bone to resist
13 displacement of the second tab in a longitudinal
14 direction toward the secondary bone zone.

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17 2. The combination of claim 1 wherein said
18 barb is located at an edge of the second tab.

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21 3. The combination of claim 2 wherein said
22 barb has a tip offset from a plane defined by the
23 second tab.

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1 4. The combination of claim 1 wherein said
2 second tab has a multiplicity of barbs oriented to
3 engage the primary bone zone to resist displacement of
4 the second tab in said direction toward the secondary
5 bone zone.

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8 5. The combination of claim 4 wherein said
9 multiplicity of barbs extend in at least one row, in
10 said direction.

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13 6. The combination of claim 4 wherein said
14 multiplicity of barbs extend in two parallel generally
15 longitudinal rows.

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18 7. The combination of claim 6 wherein said
19 barbs have sharp tips offset from a plane defined by
20 the second tab.

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23 8. The combination of claim 1 including an
24 anchor element on the first tab for use in anchoring
25 the first tab to the secondary bone zone.

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1 9. The combination of claim 8 wherein said
2 anchor element comprises an opening through the first
3 tab.

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6 10. The combination of claim 1 including a
7 retainer operatively connected with at least one of
8 said tabs and projecting for retention to at least one
9 of said bone zones at a retention level spaced from
10 levels defined by the tabs.

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13 11. The combination of claim 10 wherein said
14 retainer comprises a third tab spaced from said first
15 and second tabs.

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18 12. The combination of claim 11 wherein the
19 third tab extends generally parallel to the second tab,
20 and is integral with said first tab.

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1 13. The combination of claim 11 wherein said
2 third tab has a multiplicity of barbs oriented to
3 engage the primary bone zone to resist displacement of
4 the third tab in said direction toward the secondary
5 bone zone.

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8 14. The combination of claim 13 wherein said
9 second tab also has a multiplicity of barbs oriented to
10 engage the primary bone zone to resist displacement of
11 the second tab in said direction toward the secondary
12 bone zone.

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15 15. The combination of claim 13 wherein said
16 multiplicity of barbs extend in at least one row, in
17 said direction.

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20 16. The combination of claim 13 wherein said
21 multiplicity of barbs extend in two parallel generally
22 longitudinal rows, on each of the second and third
23 tabs.

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1 17. The combination of claim 15 wherein said
2 barbs have sharp tips offset from a plane defined by
3 the third tab.

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6 18. The combination of claim 14 wherein said
7 multiplicity of barbs on both the second and third tabs
8 have sharp tips offset from planes defined by the
9 respective second and third tabs.

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12 19. The combination of claim 13 including an
13 anchor element on the first tab for use in anchoring
14 the first tab to the secondary bone zone.

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17 20. The combination of claim 14 including an
18 anchor element on the first tab for use in anchoring
19 the first tab to the secondary bone zone.

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22 21. The combination of claim 1 including a
23 projection associated with at least one of the tabs,
24 and configured to engage the secondary bone zone at the
25 edge thereof, and in spaced relation to said tabs.

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1 22. The combination of claim 21 wherein the
2 projection is integral with at least one of the tabs.

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5 23. The combination of claim 21 wherein the
6 projection has a sharp terminal to enable penetration
7 of diploe.

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10 24. The combination of claim 22 wherein the
11 projection extends at an acute angle relative to a
12 plane defined by said one tab.

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15 25. The combination of claim 1 including
16 said primary and secondary bone zones having surfaces
17 proximate which said primary and secondary tabs extend.

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20 26. The combination of claim 21 including
21 said primary and secondary bone zones having surfaces
22 proximate which said primary and secondary tabs extend,
23 there being a spring arm connecting said projection to
24 said at least one tab, said arm extending through a gap
25 formed by said first tab.

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1 27. The combination of claim 11 including a
2 projection associated with at least one of the tabs,
3 and configured to engage the secondary bone zone at the
4 edge thereof, and in spaced relation to said tabs.

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7 28. The combination of claim 27 wherein the
8 projection is integral with at least one of the tabs,
9 and wherein the projection has a sharp terminal to
10 enable penetration of diploe.

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13 29. The combination of claim 27 including
14 said primary and secondary bone zones having surfaces
15 proximate which said primary and secondary tabs extend,
16 and there being a spring arm connecting said projection
17 to said at least one tab, said arm extending through a
18 gap formed by said first tab.

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1 30. A clip to interconnect primary and
2 secondary bone zones forming a gap therebetween,
3 comprising

4 a) first and second interfitting clip
5 components, the first component having generally Z-
6 shaped configuration, and the second component having
7 generally Z-shaped configuration,

8 b) said components having certain elements
9 to engage surfaces defined by said first and second
10 bone zones, and an additional element to engage an edge
11 defined by the second bone zone.

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14 31. The combination of claim 30, wherein the
15 interfitting components define a hinge interfit.

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18 32. The combination of claim 30 wherein said
19 certain elements of the first component include a tab
20 to engage a surface of the secondary bone zone and
21 barbs to engage a surface of the primary bone zone.

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1 33. The combination of claim 32 wherein a
2 certain element of the second component includes barbs
3 to engage another surface of the primary bone zone, and
4 said additional element defines a yieldably carried
5 projection to engage said edge.

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8 34. The combination of claim 14 including
9 intermediate barbs on the second and third tabs.

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